

Fate Report for Case # P-15-0487

Fate Summary Statement

Fate Summary P-15-0487-91**Statement: FATE:**

Solid

S < 0.001 mg/L at 25 °C (E)

VP < 1.0E-6 torr at 25 °C (E)

BP > 400 °C (E)

H < 1.00E-8 (E)

POTW removal (%) = 0-90 via possible sorption

Time for complete ultimate aerobic biodeg > mo

Sorption to soils/sediments = low - v.strong

PBT Potential: P3B1

*CEB FATE: Migration to ground water = negl - rapid

Fate Assessor: Tobias, David**SMILES:**

Physical Properties

Property	Measured/Calculated Value	EPI
Molecular Form:	C	
Molecular Wt.:	100000.00	
% < 500:		
% < 1000:		

Property	Measured Value	Method	Estimated Value	Method	EPI
Melting Point:					
Boiling Point:					
BP Pressure:			@760		@760
Vapor Pressure:			<0.000001	High MW	
Water Solubility:			<0.000001	High MW	

Property	Measured Value	Method	Estimated Value	Method	EPI
Log P:					
Log Kow:					
Log Koc:					
Log BCF:					
Henry's Law:					

pH:
pH Comment:

Fate Analysis

Hydrolysis (t1/2, da):	Volatilization (t1/2) - River (hr):	Volatilization (t1/2) - Lake (da):
Atm Ox Potential (t1/2)OH (hr):	Atm Ox Potential (t1/2)O3 (hr):	Atm Ox Potential(t1/2) Total (hr):
MITI Linear:	MITI NonLinear:	
Biodeg Linear:	Biodeg NonLinear:	
Biodeg Survey ult:	Biodeg Survey Prim:	
STP (% removal) Total:	STP (% removal) Biodeg:	
STP (% removal) Ads:	STP (% removal) Air:	

Rationales

Removal in Wastewater Treatment:
Atmospheric Oxidation:
Hydrolysis:
Photolysis:
Aerobic

Biodegradation: Anaerobic Biodegradation: Sorption to Soil and Sediment: Migration to Groundwater: Persistence - Air: Persistence - Water: Volatilization from Water: Soil: Sediment: Other: Standard: Bioaccumulation:
--

PBT Ratings

Persistence	Bioaccumulation	Toxicity	PBT Comments
3	1	2	

Exposure-Based Testing

Exposure-Based Testing:
--

Fate Ratings

Removal in WWT/POTW (Overall):

Removal in 0-90 WWT/POTW (Overall):
--

--

Condition	Rating Values	Rating Description				Comment
		1	2	3	4	
WWT/POTW Sorption:	1-4	Low	Moderate	Strong	V. Strong	
WWT/POTW Stripping:	3-4	Extensive	Moderate	Low	Negligible	
Biodegradation Removal:	1	Unknown	High	Moderate	Negligible	
Biodegradation Destruction:	1	Unknown	Complete	Partial	—	
Aerobic Biodeg Ult:	4	<= Days	Weeks	Months	> Months	
Aerobic Biodeg Prim:		<= Days	Weeks	Months	> Months	
Anaerobic Biodeg Ult:	4	<= Days	Weeks	Months	> Months	
Anaerobic Biodeg Prim:		<= Days	Weeks	Months	> Months	
Hydrolysis (t1/2 at pH 7,25C) A:	4	<= Minutes	Hours	Days	>= Months	
Hydrolysis (t1/2 at pH 7,25C) B:		<= Minutes	Hours	Days	>= Months	
Sorption to Soils/Sediments:	1-4	V. Strong	Strong	Moderate	Low	
Migration to Ground Water:	1-4	Negligible	Slow	Moderate	Rapid	
Photolysis A, Direct:		Negligible	Slow	Moderate	Rapid	
Photolysis B, Indirect:		Negligible	Slow	Moderate	Rapid	
Atmospheric Ox A, OH:		Negligible	Slow	Moderate	Rapid	
Atmospheric Ox B, O3:		Negligible	Slow	Moderate	Rapid	

Bio Comments:

Bio Comments:

Fate Comments:

--

Fate Comments:

Comments/Telephone Log

Artifact	Update/Upload Time
-----------------	---------------------------